

File ✓

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 88-300
Reference No. 87-451
Conditions on Permit

Shady Acres Trailer Park
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Chuck Kinder
311 West Yellowstone Avenue
Cody, Wyoming 82414

to construct, install, or modify ~~xx~~ additional leachfield on an existing septic
tank and leachfield system

facility according to the procedures and conditions of the
application No. 88-300. The facility is located in _____

Tract 70, T51N, R102W
_____ in the County of Park,

in the State of Wyoming. This permit shall be effective for a period of one (1)
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William L. Garland
 WILLIAM L. GARLAND
 Administrator #1479
 Water Quality Division
 STATE OF WYOMING
 8-4-88
 Date of Issuance

Ralph Wood
 Director
 Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions for Permit 88-300

1. When the city sewer line is installed within 200 feet of that property referenced in this permit, the applicant must connect this system to the Cody sewer system.

file

PERMIT TO CONSTRUCT

- [X] New
[] Renewal
[] Modified

Permit No. 88-301

CABALLO MINE DIVIDE RESERVOIR
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

The Carter Mining Company

P. O. Box 3007

Gillette, Wyoming 82716

to construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 88-301. The facility is located in Section 11, T.48N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

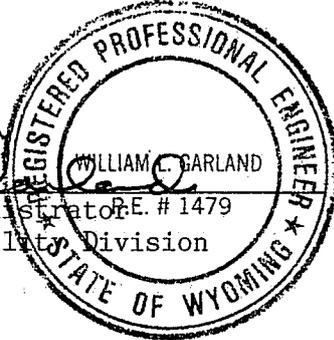
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

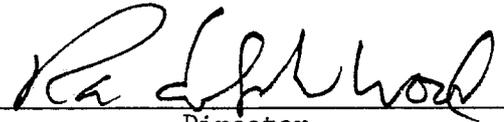
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator # 1479
Water Quality Division





Director
Department of Environmental Quality

8-3-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-302

X New
Renewal
Modified

Charles Norton Septic System

This permit hereby authorizes the applicant:

Charles Norton
Casper Mtn Rte, Box 25
Casper, WY 82601

to construct, install or modify subsurface wastewater treatment and disposal system (septic system) according to the procedures and conditions of the application number 88-302. The facility is located in S18, T32N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

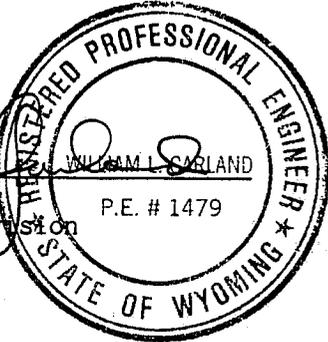
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division


Director
Department of Environmental Quality

8-4-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Natrona County Health Department
1200 East 3rd
Casper, WY 82601-2990

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-303
SEE SPECIAL CONDITION

- X New
- Renewal
- Modified

LEWIS MOUNDED SMALL SEPTIC SYSTEM

This permit hereby authorizes the applicant:

Edgar J. Lewis
2603 Park Avenue
Laramie, Wyoming 82070

to construct, install or modify a mounded small septic system according to the procedures and conditions of the application number 88-303. The facility is located in Section 35, T16N, R78W, 1/4SWNW in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. ~~The state assumes no liability for, and does not in any way~~ guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

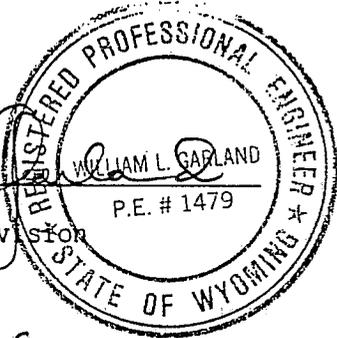
Nothing in this permit shall be construed to preclude the institution of any legal

action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Richard Wood
Director
Department of Environmental Quality

8-15-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Condition for Permit to Construct 88-303

The permittee shall notify the Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070, phone number (307) 721-5188, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. At least one working day (24 hours) notice is required prior to backfilling.

cc: Albany County Planning Office

PERMIT TO CONSTRUCT

R4

PERMIT NO. 88-304

X New
Renewal
Modified

6" and 8" Water Mains, Phase II

This permit hereby authorizes the applicant:

Town of Wheatland
600 9th Street
Wheatland, Wyoming 82201

to construct, install or modify public water distribution system according to the procedures and conditions of the application number 88-304. The facility is located in Section 1, T24N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

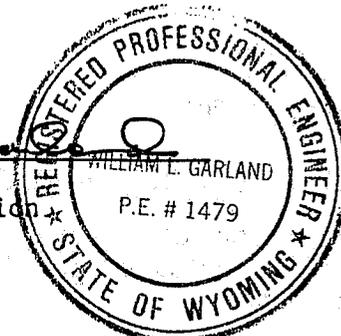
Nothing in this permit shall be construed to preclude the institution of any legal

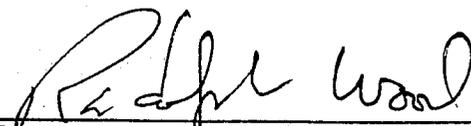
action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

8-30-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Daniel B. Kennedy
Kennedy Engineering
P O Box 1089
Wheatland, Wyoming 82201

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: 6" and 8" Water Mains, Phase II, Wheatland

ENGINEER: Daniel B. Kennedy
Kennedy Engineering
P.O. Box 1089
Wheatland, Wyoming 82201

APPLICANT: Town of Wheatland
600 9th Street
Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 88-304

REVIEWING ENGINEER: Dave Montague *DM*

DATE OF REVIEW: August 9, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The water main design shall meet the following requirements at each canal crossing, since each crossing is greater than 15 feet:
 - a) A minimum cover of two feet shall be provided over the pipe.
 - b) The pipe shall be of special construction, having flexible watertight joints.
 - c) Valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair; the valves shall be easily accessible and not subject to flooding; the valve closest to the supply source shall be located in a manhole. (Department of Environmental Quality, Water Quality Division Rules and Regulations, Chapter 12, Section 14 (h)(ii)).

2. In all transmission lines at high points (where the water pipe crown elevation falls below the pipe invert elevation), provision shall be made for air relief. Fire hydrants or active service taps may be substituted for air relief valves on 6 and 8 inch lines. (Department of Environmental Quality, Water Quality Division Rules and Regulations, Chapter 12, Section 14 (e)(i)).
 - a) On Sheet 3, indicate on the plan and profile views that air relief will be provided at the high point between STA 8+30 and STA 8+70.
 - b) On Sheet 6, indicate on the plan and profile views that air relief will be provided at the high points at STA 7+15 and STA 9+40.

3. The minimum size of watermain for providing fire protection and serving fire hydrants shall be 6 inches diameter when service is provided from two directions, or where the maximum length of 6 inches pipe serving the hydrant from one direction does not exceed 250 feet, or 8 inches where service is provided from one direction only. (Department of Environmental Quality, Water Quality Division Rules and Regulations, Chapter 12, Section 14 (b)(ii)). The service to the following fire hydrants does not meet the requirements.
 - a) Both hydrants on Sheet 3.
 - b) The northern hydrant on Sheet 5.
 - c) The northern hydrant on Sheet 6.
4. On Sheet 2, Plan View, STA 0+00, it does not show the proposed 6" water main will be connected to the existing 8" water main. Please indicate whether it will be connected.
5. On Sheet 3, Plan View, STA 10+00, it does not show the proposed 6" water main will be connected to the existing 8" water main. Please indicate whether it will be connected.

/jn

file ✓

PERMIT TO CONSTRUCT

PERMIT NO. 88-305
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

AMOCO GREYBULL REFINERY WELLS

This permit hereby authorizes the applicant:

Anthony J. Gogel
Geraghty and Miller, Inc.
5131 East 68th Street, Suite 200
Tulsa, Oklahoma 74136

to construct, install or modify up to 100 monitor wells according to the procedures and conditions of the application number 88-305. The facility is located in Greybull in the county of Big Horn, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

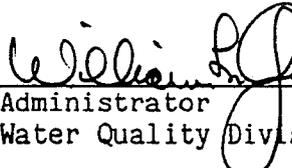
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

8-2-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 88-305

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-305. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination of product layers and dissolved constituents.

Conditions to Permit 88-305 (continued)

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;

Conditions to Permit 88-305 (continued)

- f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

PERMIT NO. 88-306
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Former Amoco Laramie Refinery

This permit hereby authorizes the applicant:

Anthony J. Gogel
Geraghty & Miller, Inc.
5131 E. 68th St., Suite 200
Tulsa, OK 74136

to construct, install or modify monitor wells according to the procedures and conditions of the application number 88-306. The facility is located in Section 29, S $\frac{1}{2}$, T16N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

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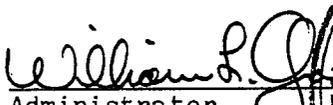
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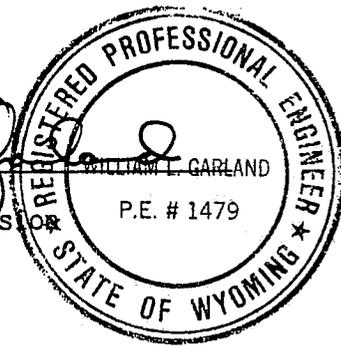
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

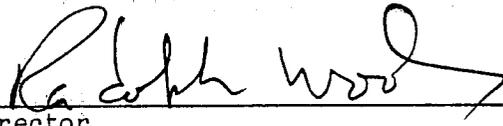
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
P.E. # 1479
STATE OF WYOMING


Director
Department of Environmental Quality

8-21-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions for Monitoring Wells

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-306. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - h. A protective casing and locking cap is strongly recommended;
 - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. Final location, construction details and logs of all monitoring wells;
 - b. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - c. Sample collection procedures;
 - d. Sampling analytical results;

Conditions to Permit 88-306 (continued)

- e. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - f. A potentiometric surface map showing the direction of groundwater movement; and
 - g. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
 10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:

Parameters listed in the permit to construct application #88-306.

The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of each quarter. The first set of results are due by the last day of October 1988.

11. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

cc: Jake Strohman
Thomas S. Norman

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-307
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

SCOTT SMALL WASTEWATER SYSTEM (MODIFIED)

This permit hereby authorizes the applicant:

Mark A. Scott
1578 Henry
Laramie, Wyoming 82070

to construct, install or modify a small wastewater system according to the procedures and conditions of the application number 88-307. The facility is located in S2, T15N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

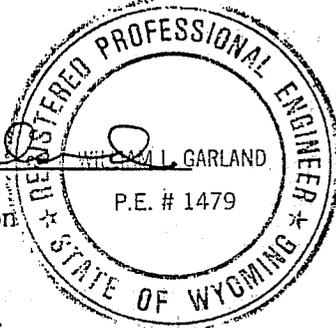
Nothing in this permit shall be construed to preclude the institution of any legal

action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Ralph Wood
Director
Department of Environmental Quality

10-13-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 88-307

1. As provided in the Department of Environmental Quality, Water Quality Rules and Regulations, Chapter XI, Part F, Section 58:
 - a. The sanitary sewer shall be at least six inches in diameter, and the sanitary sewer service connection pipe shall be at least four inches in diameter.
 - b. The sanitary sewer shall be installed at a slope equal to or greater than 0.6 feet per 100 feet.
2. The permittee shall notify the Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070, phone number (307) 721-5188, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. At least one working day (24 hours) notice is required prior to backfilling.
3. The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Laramie Step I Wastewater Facility Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until August 1, 1990 or until services are available through the approved regional system, whichever is sooner. These facilities will then be abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan, unless the City of Laramie and Albany County jointly authorize an additional three year extension.

cc: Albany County Planning Office, 405 Grand Ave., Laramie, WY 82070

Send Info. to WQD



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

| | | | | |
|----------------------------------|--|---|--|--|
| Administration (307) 777-7937 | Air Quality Division (307) 777-7391 | Land Quality Division (307) 777-7756 | Solid Waste Management Program (307) 777-7752 | Water Quality Division (307) 777-7781 |
|----------------------------------|--|---|--|--|

March 14, 1989



Mr. Brian Honey
City Engineer
City of Evanston
1200 Main Street
Evanston, WY 82930

Dear Mr. Honey:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility name: Evanston Wastewater Treatment Plant - Oxidation Ditch Platform & Effluent Metering

DEQ/WQD Reference Number: 88-308

Engineering Consultant: N/A

DEQ/WQD Reviewing Engineer: Mike Hackett/Bill Locke

Date of DEQ/WQD Review: September 25, 1988

According to Chapter III of the Water Quality Rules and Regulations, Section 7(b)(2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of your application and return this form to our office:

The application will not be resubmitted as the proposed project has been cancelled.

The application will be resubmitted within 30 days.

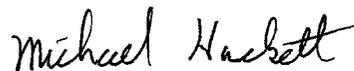
The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

Other remarks _____

Mr. Brian Honey
March 14, 1989
Page 2

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Please advise the Water Quality Division review engineer concerning the status of this project within 15 days of the receipt of this letter.

Sincerely,



Michael Hackett
Control Engineering Supervisor
Water Quality Division

MH/nc



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

March 14, 1989

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City Engineer
City of Evanston
1200 Main Street
Evanston, WY 82930

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| | |
|-----------------------------|---|
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| DEQ/WQD Reference Number: | 88-308 |
| Engineering Consultant: | N/A |
| DEQ/WQD Reviewing Engineer: | Mike Hackett/Bill Locke |
| Date of DEQ/WQD Review: | September 25, 1988 |

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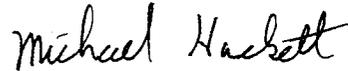
The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

Other remarks _____

Mr. Brian Honey
March 14, 1989
Page 2

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Sincerely,



Michael Hackett
Control Engineering Supervisor
Water Quality Division

MH/nc

✓ R7

PERMIT TO CONSTRUCT

PERMIT NO. 88-309

X New
Renewal
Modified

Rock River 8-inch Water Transmission Line

This permit hereby authorizes the applicant:

Town of Rock River
P O Box 280
Rock River, WY 82083

to construct, install or modify public water distribution system according to the procedures and conditions of the application number 88-309. The facility is located in S11, 10, 15, 16, T20N, R77W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

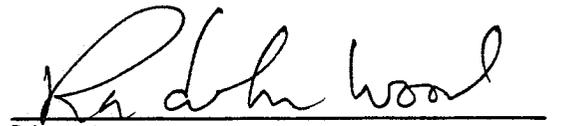
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11-9-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Maurice Block, Banner Associates, Inc., P O Box 550, Laramie, WY 82070

file ✓

PERMIT TO CONSTRUCT

PERMIT NO. 88-310
Ref. No. 85-266

See Conditions
New
X Renewal
Modified

Artesian Mobile Home Park - South Side

This permit hereby authorizes the applicant:

Gary Johnston
719 Artesian Road
Cheyenne, WY 82007

to construct, install or modify public water distribution and wastewater according to the procedures and conditions of the application number 85-266. The facility is located in S17, T13N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 6 months (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

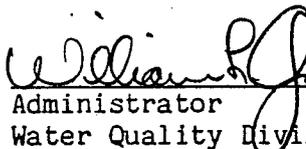
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

8-2-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions to Permit to Construct #88-310

1. Prior to initiating construction, the permittee shall notify the Water Quality Division as to when construction will start and give an estimate of the completion time of the project.
2. The permittee shall submit the following performance test results to the Water Quality Division prior to using the water and wastewater systems. The results should also include the procedures used and the necessary calculations.
 - a. Water system
 - i. Pressure and leakage testing as specified in AWWA C600-82.
 - ii. Flushing, disinfection and bacterial testing as specified in AWWA C601-82.
 - b. Wastewater system
 - i. Grade and line requirements as specified in the South Cheyenne Water and Sewer District Specifications.
 - ii. Deflection testing as specified in the authorized plans.
 - iii. Exfiltration testing as specified in the Water Quality Rules and Regulations, Chapter XI, Section 9.b.v.

cc: DM Hopkins Assoc., 216 E. 17th St., Cheyenne, WY 82001
Laramie County Commissioners, P.O. Box 608, Cheyenne, WY 82003
S. Cheyenne Water & Sewer District, 908 Drew Court, Cheyenne, WY 82007

R7



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

October 12, 1988

G. G. Nicolaysen, Jr. Operator
Cole Creek Unit
P.O. Drawer 500
Casper, Wyoming 82602

RE: Cole Creek Disposal Unit
Permit # UIC 88-311 class I
Converse County, Wyoming

Dear Mr. Nicolaysen:

Enclosed find your approved UIC permit for the above referenced project. No adverse comments were received.

Please read the entire permit carefully to insure compliance with all of its provisions. This is the final permit and changes are not easily made at this time.

Sincerely,

Robert F. Lucht, P.E.
UIC Program Supervisor
Water Quality Division

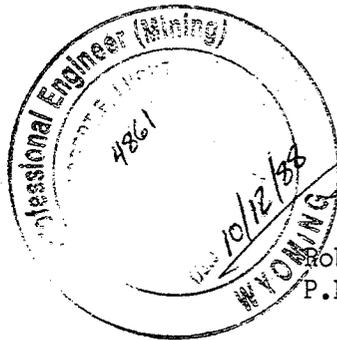
RFL/jn

cc: Jake Strohman, DEQ/WQD

Enclosure

Cole Creek Disposal Unit
Permit UIC 88-311 class I
Converse County, Wyoming

I hereby certify that I personally reviewed the above referenced application. The permit issued is in compliance with applicable regulations of Chapters VIII and IX of Wyoming Water Quality Rules and Regulations as well as applicable portions of 40 CFR Parts 124, 144, 146 and 148.



Robert F. Lucht
Robert F. Lucht
P.E. Number 4861

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF WYOMING
GROUNDWATER POLLUTION CONTROL PERMIT
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS
(Permit to Inject)

(X) New

Permit Number:

() Modified

88-311
UIC CLASS I

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter IX (September 4, 1980),

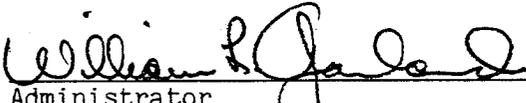
G.G. Nicolaysen, Jr., Operator
Cole Creek Unit
P. O. Drawer 500
Casper, Wyoming 82602

is authorized to operate

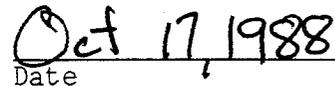
Cole Creek Disposal System

according to procedures and conditions of the application 88-311 and requirements and other conditions of this permit.

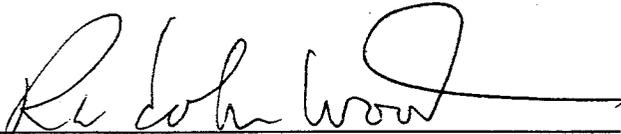
This permit shall become effective on date of issuance.



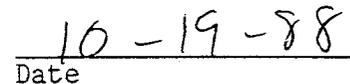
Administrator
Water Quality Division
Herschler Building, 122 W. 25th
Cheyenne, WY 82002
Phone: (307) 777-7781



Date



Director
Department of Environmental Quality
Herschler Building, 122 W. 25th
Cheyenne, WY 82002



Date

A. Discharge (Injection) Zone and Area of Review

The permitted injection zone under this permit includes the entire Dakoka Formation located in T 35 N, R 77 W, Sixth P.M., Sections 22 S1/2, 23 S1/2, 26 and 27. This permit covers three wells in an area permit. These three wells and the present open intervals are shown:

| WELL NUMBER | PRESENT OPEN INTERVAL |
|-------------|-----------------------|
| F23-26G | 8289-8333 |
| F32-26G | 8507-8535 |
| F41-27G | 8074-8099 |

Any or all of these wells may be deepened to include the entire Dakota Formation at the operator's discretion. Water Quality Division shall be informed before any well is worked over.

B. Groundwater Classification

The waters of the Dakota Formation within the area of review are classified as class VI (industrial use only) on the basis of the TDS which is greater than 10,000. This unit also contains petroleum hydrocarbons and has been classed in the past as class V (Hydrocarbon Commercial). This water can be assumed to be saturated in Benzene, Toluene, Ethyl Benzene, and Xylenes by virtue of its intimate association with crude oil.

The waters of the Dakota Formation have exhibited a gradual freshening caused by injection of fresh waters in the past. This freshening should not affect the groundwater classification since this water remains saturated with organic species.

C. Authorized Operations

The permittee is authorized to conduct commercial disposal operations at the Cole Creek Unit through the following wells: F23-26G, F32-26G, F41-27G. These wells shall be operated at a surface injection pressure of no more that 1350 psi as measured by a continuous recording pressure meter located on the injection line at the well head. This pressure has been determined by the following calculation based on a very conservative fracture gradient of .55 psi/ft of depth as shown on the following table:

| WELL NUMBER | OPEN INTERVAL | BOTTOM HOLE PRESSURE | STATIC WATER PRESSURE | FRICTION LOSS AT 3 BPM | ALLOWABLE SURFACE PRESSURE |
|-------------|---------------|----------------------|-----------------------|------------------------|----------------------------|
| F23-26G | 8289-8333 | 4613 | 3592 | 580 | 1601 |
| F32-26G | 8507-8535 | 4679 | 3686 | 595 | 1588 |
| F41-27G | 8074-8099 | 4441 | 3499 | 564 | 1506 |

$$1506 \times .90 = \text{PERMIT CONDITION} = 1350$$

Permittee shall conduct a step injection rate test on any one of these wells to determine the actual parting pressure. After this test is completed, the injection pressure shall be limited to 10% less than the parting pressure on the surface.

At the present time, this system is operating as a class II injection system. Volumes being injected per month are shown on the application as reaching a maximum of 5 barrels per minute in well F41-27G with an average of .7 barrels per minute. The maximum injected volume shall not exceed 400,000 barrels per month from all sources. After the step injection test is run, this permit will be limited to the volume which can be injected at 10% less than the parting pressure expressed in barrels per day.

The permittee shall install, within 90 days of the issuance of this permit, continuous recording devices to record pressure of injection and volume injected on each of the three wells; and a pressure recording device or high-low pressure kill switch on the annulus between the casing and the tubing in all three wells. If a high-low pressure kill switch is used, the permittee shall record manually the annulus pressure on a daily basis.

The permittee shall apply a pressure to the annulus of each of the three wells covered by this permit of approximately 400 psi and hold this pressure continuously. It is recognized that the annulus pressure will vary somewhat during normal operation. Should the annulus of any well ever lose pressure, or if any annulus ever reaches the same pressure as the injection pressure, that well shall be shut in and this fact reported to Water Quality Division in writing within 7 days of the date when this is first discovered.

The permittee is authorized to accept the following types of waste on a commercial basis for injection into this system:

1. Oilfield produced waters (SIC 13) from any formation within the Cole Creek unitized area as shown on the application. The Cole Creek unit includes the following named lands:

T35N, R77W, 6th P.M.

=====

Section 15: W1/2
Section 16: All
Section 17: All
Section 20: All
Section 21: All
Section 22: All
Section 23: S1/2
Section 24: SW1/4
Section 25: W1/2
Section 26: All
Section 27: All
Section 28: All
Section 29: NE1/4

These waters may be injected in whatever quantity the permittee feels are necessary up to the total permit limits on injected volume. No analyses are required of waters within this unit under this permit, but volumes shall be accounted for.

2. Groundwaters from the Parkman Formation at a TDS of approximately 1,500 may be injected from any source well within the Cole Creek Unitized area. Before any new source well may be utilized for this purpose, an approved groundwater appropriation must be obtained from the Wyoming State Engineer's office. No analyses are required for Parkman waters.
3. Industrial wastes may be accepted for disposal in any quantity up to the maximum permit limit, provided that they are analyzed for an appropriate list of parameters and can be shown to be non-hazardous under the Resource Conservation and Recovery Act. Hazardous waste as identified by EPA under 40 CFR 261.3 is not allowed under any circumstances. For any industrial waste accepted under this section, an analysis shall be submitted to Water Quality Division 15 days prior to injection. Water Quality Division will rule on the acceptability of such wastes by telephone and in writing within this 15 day time span. Wastes shall not be accepted on site or injected until approval is granted by the department. In order to show that a waste is non-hazardous under RCRA, an assay for EP Toxicity and pH is required at a minimum. Wastes with a pH of less than 4 or more than 10 shall be neutralized prior to injection. Additional assays such as EPA method 602 for Benzene, Toluene, Ethyl Benzene, and Xylenes; EPA method 610 for Polynuclear Aromatic Hydrocarbons, EPA method 604 for phenols, EPA method 624 for Volatile Organics, EPA method 625 for semi-volatile organics may be acceptable to show that a given waste is non-hazardous. On a case-by-case basis, Water Quality Division may require additional assays as it sees fit to protect the health and safety of the operator, his employees or the general public.
4. Oilfield produced waters (SIC 13) from any field and any formation may be injected in any quantity up to the total permit limit. Oilfield produced waters from outside the Cole Creek Unit shall be analyzed for TDS and major ions prior to injection. The permittee shall report these analyses with the first quarterly report following their injection.
5. Nothing in number 3 above shall limit the operator from doing controlled acidizing jobs as may be required from time to time.

If at any time, the maximum authorized pressure or rate is exceeded, permittee shall report this fact to the Administrator or his representative orally within 24 hours of knowledge of the fact. A written submission shall be provided within 5 days of the time that the permittee becomes aware of the circumstances.

Permittee has proposed installation of a computer controller to monitor the operation of these wells. This computer shall record the date,

hauling company, source lease or source of industrial waste, and volume injected for each load hauled. The permittee is required to make paper copies of all information in the computer prior to erasing any data in memory. All records shall be retained for 3 years.

D. Proper Operation and Maintenance

The permittee is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit application and supporting documents, as accepted and approved by the administrator.

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls, including appropriate quality assurance procedures.

The subsurface discharge (injection) authorized by permit shall be consistent with the conditions and content of the permit; any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

E. Entry and Inspection

The permittee shall allow the administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip

chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.

3. Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The name(s) of individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. Names of individuals who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

4. The prescribed program for this permitted activity is as follows:

The injection zone (Dakota Formation) is an oil producing formation overlain by the Skull Creek Shale, the Muddy Formation, the Mowry Shale, and the Frontier Formation. Together these formations form a thick impermeable layer. Shales within this confining interval are known to be of very low permeability as is confirmed by the initial accumulation of hydrocarbons in the Dakota. Sand units within this confining interval are also oil bearing, and will provide for dissipation of pressures in the unlikely event that leakage through the shales should occur. The cover separating the injection zone from the deepest source of usable water is 5100 feet. The Parkman Formation at 2900 feet contains waters of 1200 mg/l TDS. The deepest source of potable water is 200 feet.

The permittee shall monitor the three windmills in section 26 yearly. These wells shall be analyzed during the fourth quarter of each calendar year for TDS, Chloride and Sulfate. The results of these analysis shall be reported with the quarterly report for the quarter in which they are sampled.

The permittee has shown 10 wells within the Area of Review that have not been plugged and abandoned. Of these, three are the injection wells covered by this permit, four are active oil wells, and three have been temporarily abandoned. The permittee shall monitor the three temporarily abandoned wells, F14-22P, F21-26G, and 41X-26G on a monthly basis. These wells shall have a valve or blind flange set at the surface with provision made to monitor casing pressure. Should pressure develop in any of these wells, the operator shall report this fact to Water Quality Division within 15 days in writing. The permittee shall immediately make plans to place the well back in production or set a cement plug across the top of the Dakota. Should any producing well within the Area of Review be plugged and abandoned, Water Quality Division shall be copied on all reports. Any well within the area of review which is plugged and abandoned shall have cement set from total

depth at least to the top of the Mowry Shale.

G. Requirements for Monitoring the Discharge

Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of confining strata.

Injection pressure and volume, as well as annulus pressure shall be monitored continuously. Each well shall have a recording pressure chart on the injection pressure at the wellhead and a recording flow meter on the injection volume. Flow meters shall be either shedding vortex type or differential pressure type. Each well shall be equipped with either a high-low pressure kill switch or a continuous chart recorder hooked to the casing/tubing annulus pressure.

A quarterly report is required to be submitted within 30 days of the end of each calendar quarter. This report shall contain:

1. The maximum and minimum daily injection pressure (not an average pressure but an instantaneous pressure) and the maximum and minimum daily injection volume for each month within the quarter, and the dates that these maximums and minimums were reached. The accumulated total volume of waste injected for each month and the accumulated total volume injected to date.
2. The maximum and minimum daily annulus pressure and a detailed operating log for those particular days of operation.
3. A typical analysis of each new source of oil-field produced water from outside the Cole Creek Unit. These analysis shall include TDS, pH, and major ions. A more detailed analysis may be required by the Water Quality Division if circumstances warrant such actions.
4. A complete organic analysis and volume of any industrial waste disposed of. EP Toxicity may be used to fulfill the requirements of this section. Other analysis as shown in Section C. above may be used also. In-organic analysis may also be required depending on the character of the waste.
5. Total volumes of formation produced waters from within the Cole Creek Unit, any produced waters from outside the unit, and any fresh water injected is required. A list of leases outside the Cole Creek unit that contributed produced waters is also required.
6. Any non-compliance, MIT, or significant event during the quarter. If quarterly reports should show a record of being submitted late, the Administrator may substitute more stringent monthly reporting requirements.
7. The average injection pressure for each month calculated by averaging the maximum pressures for each day.
8. The annual report required under section I-11 of this permit shall

consist of the fourth quarterly report along with a summary of the year's operation. The annual report shall include totals on all volumes injected for the entire year.

H. Test Procedures

Test procedures for the determination of water quality parameters and constituents shall be in accord with provisions of Water Quality Rules and Regulations Chapter VIII, Section 7.

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified in Section C and/or Section G of this permit.
5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported

otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.

8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
 - a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator, and
 - b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
 - c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.
11. Annual reports shall be submitted to the administrator within 30 days following the anniversary date of the permit.
12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:

1. Violation of the permit;
2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit is issued.

A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the council.

This operation (permit) can be terminated by authority of the administrator for one or more permit violations.

Public notice of the permit review and request for public comment will be made every 10 years by the administrator.

K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

At a minimum of once every three years and more frequently if required by the Department of Environmental Quality, Water Quality Division, the permittee shall demonstrate the continued sound and unimpaired condition of the all components of each injection well by mechanical integrity testing. An injection well has mechanical integrity if there is no significant leak in the casing, tubing and packer; and there is no significant movement of injected fluids through vertical channels adjacent to the well bore. The absence of leaks will be determined by holding 1,500 psi on the annulus for 15 minutes.

At a minimum of once every five years and more frequently if required by the administrator, the permittee shall prove the absence of fluid movement through vertical channels. The absence of fluid movement through vertical channels will be determined by an injection well profile (radioactive tracer log), or a temperature log, or other acceptable method.

Within six months of the issue date of this permit, the permittee shall demonstrate mechanical integrity of each of the three wells covered by this permit by running cement bond logs and conducting a pressure test of the casing/tubing annulus to 1500 psi for 15 minutes. The permittee shall also demonstrate the fluid tight condition of all surface facilities by closing the valves on all wells and pressure testing all injection lines to 1,500 psi for 15 minutes.

The casing/tubing annulus shall be filled with water mixed with a corrosion inhibitor. The permittee shall submit, along with his first quarterly report a description of the corrosion inhibitor used. Records of any fluids added to the annulus must be kept and submitted along with the quarterly report. The casing/ tubing annulus shall be pressurized to 400 psi and this pressure held permanently.

Nothing in this permit constitutes an endorsement of the construction or design of the facility described herein. This permit indicates only that the standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of the permittee in the exercise of the activities allowed under this permit. The permittee understands that he is solely responsible to any third party for any liability arising from the construction and operation of the facility described herein. By issuance of this permit, the state does not in any way waive its sovereign immunity.

The F23-26G injection well was drilled between September 20, 1952 and October 28, 1952 by General Petroleum Corporation as a Dakota Formation oil well. Drilled 264 feet of 13 3/4" hole and cemented 12 joints of Republic 10-3/4", 35.75# electric weld pipe; with 130 sacks of Ideal Regular cement and 2% calcium chloride. Re-cemented with 45 sacks placed through a 1" pipe outside the 10-3/4". Drilled to 8300 feet with 9 inch bit. Cored from 8300 to 8333 with 6-1/8 inch Christensen Diamond core head. Logged with Schlumberger electric logging tool to 8322 feet. Ran and cemented 258 joints 5-1/2 inch casing with Howco packer shoe at 8289 feet. All casing was 8 round ST&C, the running order of casing follows:

| FOOTAGE IN WELL | WEIGHT | GRADE |
|-----------------|--------|-------|
| ===== | ===== | ===== |
| 0- 26.65 | 17 | J-55 |
| 26.65-627.27 | 15.5 | J-55 |
| 627.27-2430.22 | 14 | J-55 |
| 2430.22-2893.95 | 14 | H-40 |
| 2893.95-3896.05 | 14 | J-55 |
| 3896.05-6559.24 | 15.5 | J-55 |
| 6559.24-8303.01 | 17 | J-55 |

Injection is through the open interval from 8003.01 to 8331. The injection string consists of 254 joints of 2-3/8" J-55 tubing with a Baker Model R packer set at 7904 feet.

The F32-26G injection well was drilled between December 18, 1952 and February 5, 1953 by Socony-Vacuum Oil Company as a Dakota oil well. Drilled to 304 feet with 13-3/4 inch bit. Ran and cemented 14 joints 10-3/4 inch 35.75# electric weld line pipe; Baker guide shoe at 304 feet. Cemented surface casing with 145 sacks Ideal Regular cement at 15.5# per gallon. Ran in 1 inch line beside the 10-3/4 inch and added 91 sacks to cement the surface. Drilled 9 inch hole to 8350 feet. Cored with 6-1/8 inch core head 8350 to 8357 feet and 8358 to 8385 feet. Drilled 9 inch hole 8507 feet. Ran and cemented 203 joints, 8510.79 feet of 5-1/2 inch casing. All casing was 8 round ST&C, the running order of casing follows:

| FOOTAGE IN WELL | WEIGHT | GRADE |
|-----------------|--------|------------|
| ===== | ===== | ===== |
| 0- 32.78 | 17 | J-55 |
| 32.78-6906.27 | 15.35 | Conversion |
| 6906.27-8510.79 | 17 | J-55 |

Cored out of casing from 8510 to 8535. Injection is through the open interval from 8510 to 8535. The injection string consists of 273 joints of 2-7/8" J-55 tubing with a Baker Model R-3 packer set at 8464 feet.

Injection well F41-27G was drilled from January 6, 1952 to February 21, 1952. 11-3/4 inch 47# J-55 surface casing was set at 248 feet and cemented with 140 sacks of cement in a 14-3/4 inch hole. 5-1/2 inch, 17# J-55 casing was run to 8074 feet and cemented with 160 sacks of cement in a 9 inch hole. The well was completed with open hole from 8074 to 8099 feet. Injection is through 8074 feet of 2-7/8 inch tubing set with a Baker model R-3 packer.

L. Abandonment

The permittee shall notify the administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedures prescribed by the director for plugging and abandonment or the discontinuance of related activities:

Water Quality Division abandonment requirements will be coordinated with requirements of the Wyoming Oil and Gas Conservation Commission (WOGCC). In no case shall the required abandonment procedure be less than that required by WOGCC at the time of abandonment.

Water Quality Division will require that the Dakota open hole in each of the wells within the Area of Review be squeezed with a minimum of 50 sacks of cement followed by a cement fillup to the top of the Mowry Formation. In no case shall the surface casing be recovered. Production casing may be cut off above the bottom plug and recovered. If this is done, the well bore shall be mudded up to meet the requirements of 35-11-404 of the Environmental Quality Act and Land Quality Regulations, Chapter 15.

A standard, dry hole marker shall be erected over the abandoned well. The surface casing shall be blind flanged and the dry hole maker shall be welded to this flange.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;

4. Furnish to the administrator within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

The permittee is required to maintain financial responsibility and resources in form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

The required Certificate of Financial Responsibility has been submitted, along with copies of three bonds that have been posted. Bond Number 19 S 100207514 BCA is payable to the WOGCC and issued by the AETNA Casualty and Surety Company in the amount of \$25,000.00. Bond Number 19 S 100207512 BCA is payable to the US BLM and issued by the AETNA Casualty and Surety Company in the amount of \$25,000.00. Bond Number 19 S 100207513 BCA is payable to the State Land Department in the amount of \$10,000.00 and is issued by the AETNA Casualty and Surety Company. The permittee has offered these bonds as evidence of financial responsibility. Even though these bonds do not directly guarantee the plugging and abandonment of the three injection wells, Water Quality Division believes that they are sufficient evidence of the financial responsibility of the permittee. The permittee shall notify the Water Quality Division immediately by certified letter should he find that he is unable to continue carrying these bonds or any replacements for these bonds.

O. Special Measures the Director Finds Necessary:

The permittee has proposed a computer controller to collect required informations concerning the operation of these wells. This controller shall be in operation no later than 90 days from the date of issuance of this permit. Until this control computer is installed, all required information shall be collected manually. This may require the operator to be at the site whenever any water is delivered for injection.

At least once a year, and more often if the administrator finds it necessary, the injection wells shall be shut in for a period of time to allow a valid pressure fall off curve to be recorded. This curve shall be considered complete when vacuum has been reached at the well head or when the curve becomes asymptotic to a horizontal line, whichever occurs first.

No industrial waste shall be stored on site prior to receiving approval for its injection.

P. Special Permit Conditions:

Pollution or waste which migrates into an aquifer containing a usable groundwater of the state is a violation of the permit.

Mechanical integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

Q. Signatories Requirement

All reports required by this permit and other requested information shall be signed as follows:

For a corporation -- by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

For a municipality, state, federal or other public agency -- by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the described principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the administrator prior to or together with any reports or information, to be signed by an authorized representative.

Any person signing a report or other requested information shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification or planned changes or anticipated noncompliance, does not stay any permit condition.

S. Permit Transfer

The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the department director.

T. Responsibilities

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

U. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

V. Severability

The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

LAND APPLICATION PERMIT

Permit No. 88-312
SEE SPECIAL CONDITIONS

NORTH TISDALE ROAD APPLICATION
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Conoco, Inc.

851 Werner Court

Casper, Wyoming 82601

To land apply waste oil to roads for dust control. The application site is located in Sections 4 & 9, T.41N., R.81W., in the county of Johnson, in the State of Wyoming. This permit shall be effective for a period of six (6) months from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

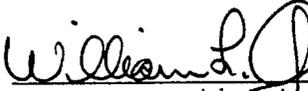
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions of this permit.

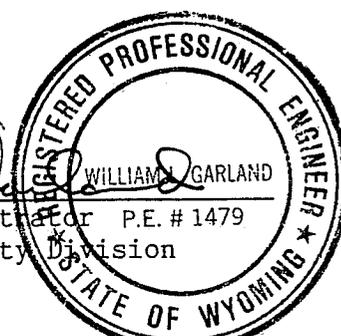
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulations.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

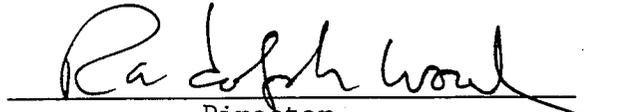
AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division



REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
STATE OF WYOMING



Director
Department of Environmental Quality

8-4-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

LAND APPLICATION SPECIAL CONDITIONS

1. Waste oil shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed eight percent for vehicular application.
3. Waste oil application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Susan Fields, 2161 Coffeen Avenue, Suite 501, telephone number 307/672-6457, prior to initiation of work. The District Engineer should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
5. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed as it is applied. Wastes will not be applied during the period from November 1 to April 30.
6. This permit is in effect for a period of six (6) months. Any application of wastes beyond six months from the date of issuance shall be repermited.

7. This permit is contingent on the applicant complying with any provisions required by BLM should waste application occur on Federal lease roads or if the waste is generated from a Federal lease.

xc: Tom Clayson
BLM, Buffalo Resource Area
189 N. Cedar
Buffalo, Wyoming 82834

ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone, 332-3144.

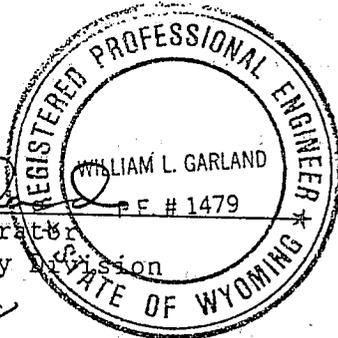
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
8-25-88
Date of Issuance





Director
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

| | | | | |
|----------------------------------|--|---|--|--|
| Administration (307) 777-7937 | Air Quality Division (307) 777-7391 | Land Quality Division (307) 777-7756 | Solid Waste Management Program (307) 777-7752 | Water Quality Division (307) 777-7781 |
|----------------------------------|--|---|--|--|

August 23, 1988

William T. & Mary H. Swain
Box 319 North Fork
Centennial, WY 82055

RE: Permit to Construct Application Number 88-314

Dear Mr. & Mrs. Swain:

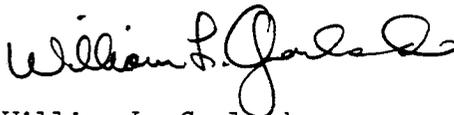
The Department of Environmental Quality, Water Quality Division, has reviewed your application (# 88-314) concerning the septic system for/at S35, T16N, R78W, NW $\frac{1}{4}$, Albany County. The Water Quality Division has determined that the septic system meets the minimum state standards for isolation distances to wells, property lines, seasonal high groundwater, etc. Since the septic tank and drainfield size cannot be determined without digging up the entire system, the department cannot evaluate if the system is sized correctly. However, based on eight years of actual operating experience, the system appears to be adequately sized for current conditions of two people on year round usage. The affect of any increased wastewater quantity or quality or improper maintenance cannot be determined.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its the activities allowed under this letter. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this letter, the state does not in any way waive its soverign immunity.

William T. & Mary H. Swain
August 23, 1988
Page 2

Since a permit to construct cannot be issued for as-built wastewater treatment facilities, this letter will serve as your final approval document.

Sincerely,

A handwritten signature in cursive script, appearing to read "William L. Garland".

William L. Garland
Administrator
Water Quality Division

WLG/DM/mad

cc: Mike Casey
Albany County Planning Office
405 Grand Avenue
Laramie, WY 82070

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Swain Small Septic System

ENGINEER:

APPLICANT: William T. and Mary H. Swain
Box 319 North Fork
Centennial, WY 82055

WATER QUALITY DIVISION REFERENCE NUMBER: 88-314

REVIEWING ENGINEER: David Montague 

DATE OF REVIEW: August 8, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

Please provide the following separation distance:

1. Distance between the septic tank and the leach field.
2. Distance from the leach field to the North, South, and East property boundaries.

/jn



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

December 22, 1988

Parker Industries
C/O Marlin Fisher
Homco International, Inc.
4710 Bellaire Blvd. Suite 200
Bellaire, Texas 77401

RE: Parker Industries Drainfield
Permit UIC 88-315 class 5W20
Casper, Natrona County, Wyoming

Dear Mr. Fisher:

This letter will serve as official notice that your application for a UIC permit for the above referenced location has been denied. This permit was to be for 1465 North Willar Drive. Water Quality Division requested additional analysis to be performed on this drainfield on July 5, 1988 in a letter to your consultant, Molly Castellucci. As of this date, no additional information has been received.

Further talks with Rosanna Garrison and Dr. Kent Murry have indicated that it is Homco's intention to abandon this drainfield facility, sample the contaminated soil and do a limited scope site cleanup. For this reason the UIC permit will not be needed.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/jn

cc: Rosanna Garrison, Augeas Corporation
Dr. Kent Murry, Murry and Associates
Jake Strohman, DEQ/WQD



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

December 22, 1988

Marlin Fisher
Homco International
4710 Bellaire Blvd. Suite 200
Bellaire, Texas 77401

RE: Homco International Drainfield
Permit UIC 88-316 class 5W20
Casper, Natrona County, Wyoming

Dear Mr. Fisher:

On August 3, 1988, Water Quality Division requested additional information on the above referenced facility. This letter will serve as official notice that your application for a UIC permit for the above referenced location has been denied. This permit was to be for 1422 North Derrick Drive.

Further talks with Rosanna Garrison and Dr. Kent Murry have indicated that it is Homco's intention to abandon this drainfield facility, sample the contaminated soil and do a limited scope site cleanup. For this reason the UIC permit will not be needed.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/jn

cc: Rosanna Garrison, Augeas Corporation
Dr. Kent Murry, Murry and Associates
Jake Strohmman, DEQ/WQD



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Solid Waste Management Program
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Water Quality Division
(307) 777-7781

December 22, 1988

Acme Tool and Homco Coring Services
C/O Marlin Fisher
Homco International, Inc.
4710 Bellaire Blvd. Suite 200
Bellaire, Texas 77401

RE: Acme Tool Drainfield
Permit UIC 88-317 class 5W20
Casper, Natrona County, Wyoming

Dear Mr. Fisher:

This letter will serve as official notice that your application for a UIC permit for the above referenced location has been denied. This permit was to be for 6405 West Yellowstone Highway.

Further talks with Rosanna Garrison and Dr. Kent Murry have indicated that it is Homco's intention to abandon this drainfield facility, sample the contaminated soil and do a limited scope site cleanup. For this reason the UIC permit will not be needed.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/jn

cc: Rosanna Garrison, Augeas Corporation
Dr. Kent Murry, Murry and Associates
Jake Strohman, DEQ/WQD

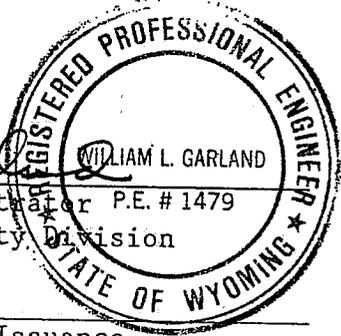
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


William L. Garland
Administrator P.E. # 1479
Water Quality Division
8-15-88
Date of Issuance

Raymond Wood
Director
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

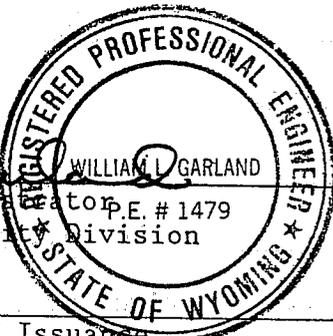
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone, 332-3144.

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AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division
P.E. # 1479
8-15-88
Date of Issuance



R. Johnson
Director
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

ing working hours, to have access to inspect activities, at the above location, for the purpose of compliance with the provisions of this construction permit.

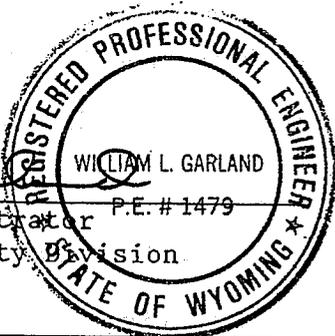
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division
8-15-88
Date of Issuance



Roderic Wood
Director
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

RF ✓

PERMIT TO CONSTRUCT

PERMIT NO. 88-321

- X New
- Renewal
- Modified

Town of Glenrock Deer Creek Sewer Relocation

This permit hereby authorizes the applicant:

Town of Glenrock
219 South Third
Glenrock, WY 82637

to construct, install or modify public wastewater collection system according to the procedures and conditions of the application number 88-321. The facility is located in S33, T34N, R75W in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. ~~The state assumes no liability for, and does not in any way~~ guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William J. Garland
Administrator
Water Quality Division



Ralph Wood
Director
Department of Environmental Quality

9-7-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Robert Hartley, R.C.H. & Associates, P O Box 1659, Glenrock, WY 82637

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-322
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

FORT STEELE REST AREA

This permit hereby authorizes the applicant:

Wyoming Highway Department
P O Box 1708
Cheyenne, Wyoming 82002-9019

to construct, install or modify a wastewater treatment system (lagoons, land application) and water treatment system according to the procedures and conditions of the application number 88-322. The facility is located in Sections 26 & 35, T21N, R85W SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

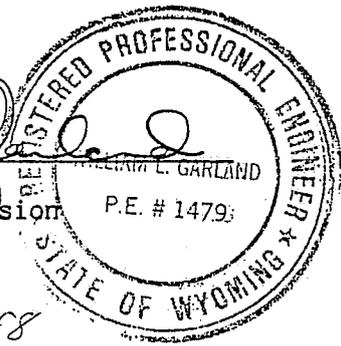
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

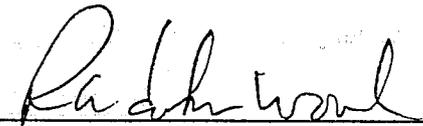
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

11-13-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct #88-322

1. The side slopes in the first cell of the wastewater lagoon shall not exceed 3:1 horizontal to vertical.
2. An operation and maintenance manual shall be authorized prior to start-up of the water and wastewater systems.
3. Since the water treatment system is under enforcement action, the water system shall have the highest priority for completion and start-up.
4. The polishing pond effluent shall be analyzed for the parameters identified in Water Quality Rules and Regulations, Chapter XI, Part E, Section 55(c)(i) before the irrigation system is utilized. Results shall be submitted to the Water Quality Division as soon as they are available.
5. If irrigation of wastewater is necessary, the wastewater effluent shall meet the fecal coliform limit of 200/100 ml and irrigation shall be conducted on a dusk to dawn cycle. Sampling shall be performed once per month while irrigation is occurring. Results shall be submitted quarterly to the Water Quality Division.

Cheyenne, WY 82009
cc: Gust & Johnson, 2232 Del Range, Suite 203, ~~Colorado Springs, CO 80944~~
Berry Venn, CEPI, 400 E. 1st, Suite 311, Casper, WY 82601
E.J. Fanning, DEQ/WQD

file

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Fort Steele Rest Area

ARCHITECT OR ENGINEER: Rick Johnston
Gust & Johnston
2232 Del Range Suite 203
~~Colorado Springs, CO 80944~~ *Cheyenne, WY 82009*

APPLICANT: Wyoming Highway Department
P O Box 1708
Cheyenne, WY 82002-9019

WATER QUALITY DIVISION REFERENCE NUMBER: 88-322

REVIEWING ENGINEER: Thomas S. Norman *TSN*

DATE OF REVIEW: August 12, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The groundwater wells need to be properly abandoned.
2. The side slope on the 1st cell of the wastewater pond cannot exceed 3:1.
3. What is the purpose of the aerator in the 1st cell of the wastewater pond? Is it necessary since the system is non-discharging?
4. Will there be a problem with the plastic barrier in the wastewater pond with ice buildup?
5. Provide design calculations for how the heads were determined for the different pumps.
6. Chlorine.
 - a. Is the chlorine analyzer a continuous sample?
 - b. The analyzer should be placed on the inlet to the water storage tank.
 - c. A stand-by chlorinator is required for the post-chlorinator system.
 - d. The pre-chlorination system should not routinely be used so as to prevent the formation of trihalomethanes.

7. The inlet and outlets to the water tank should be separated to prevent short-circuiting.
8. The building needs to have a ventilation system with capacity of six changes per hour.
9. The facilities need to be protected from the 100 year flood.
10. An operation and maintenance manual must be approved prior to start-up. Check requirements in Chapter XI and XII.
11. The wastewater system requires a class IV certified operator. The water system is rated at a class III, but a certified operator is not required at this time.

\mad

LAND APPLICATION PERMIT

Permit No. 88-323
SEE SPECIAL CONDITIONS

STATE MINNELUSA SAND UNIT -
ROAD APPLICATION
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Pease & Kennedy

Box 3107

Gillette, Wyoming 82716

To land apply oil contaminated soil to lease roads. The application site is located in Section 36, T.50N., R.70W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of six (6) months from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable State requirements.

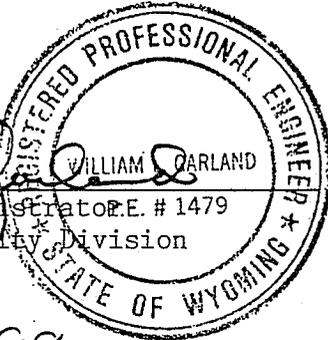
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

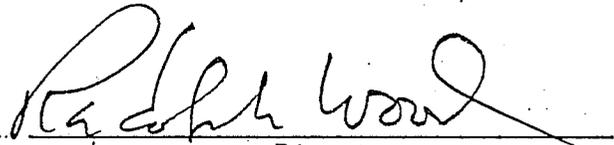
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with provisions of this permit.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulations.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM GARLAND
E. # 1479
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING


Director
Department of Environmental Quality

8-9-88

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

LAND APPLICATION SPECIAL CONDITIONS

1. Contaminated soil shall be applied at a rate which will not produce runoff or ponding of oil.
2. Application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. Contaminated soils shall be mechanically incorporated into the road bed as it is applied. Any evidence of free oil following application shall result in reincorporation of the material into the road surface.
4. This permit is for a one time application of soils associated with site reclamation at referenced facility. Any additional application of wastes shall be re-permitted.

xc: Joe Ross
State Land Office
Herschler Building, 3rd Floor
122 W. 25th Street
Cheyenne, Wyoming 82002

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 88-324R
Condition on Permit

FMC Wyoming Corporation Sanitary Sewage Lagoon
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

FMC Wyoming Corporation

P.O. Box 872

Green River, WY 82935

to construct, install, or modify a sanitary sewage lagoon expansion facility according to the procedures and conditions of the application No. 88-324R. The facility is located in NW 1/4, Section 15, T19N, R110W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construc-

tion or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

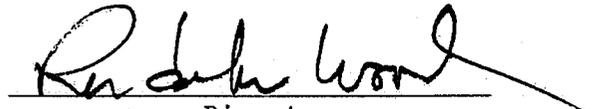
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

11-22-88
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Conditions of Permit

1. Well Number 16 will be monitored every 6 months for one year for the following parameters:
Ammonia (NH₃-N)
Nitrate (NO₃-N)
Sulfate
Chloride
TDS
2. The monitoring Records for well Number 18 for the past three years shall be provided to establish a background.

P.F

LAND APPLICATION PERMIT

Permit No. 88-325
SEE SPECIAL CONDITIONS

MARATHON - BYRON OILFIELD LAND APPLICATION
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Marathon Oil Company

P.O. Box 2690

Cody, WY 82414

to land apply waste oil sludge. The application site is located in Lot 46, T56N R97W in the county of Big horn in the State of Wyoming. This permit shall be effective for a period of two (2) months (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

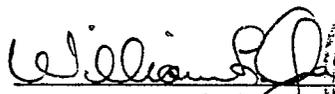
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, ~~the permittee in the exercise of~~ its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions of this permit.

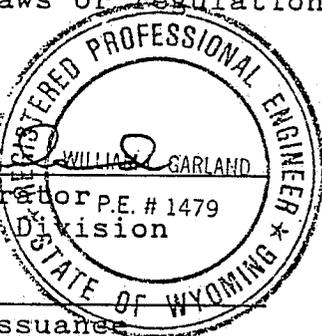
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

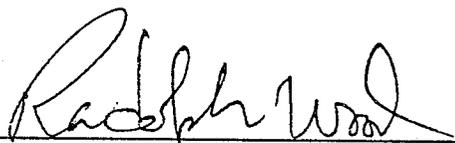
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division
9-1-88
Date of Issuance





Director
Dept. of Environmental Quality

This permit does not supersede the requirements for obtaining any permit from local agencies.

LAND APPLICATION STANDARD CONDITION

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Applications shall not be initiated during periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8 percent for vehicular application.
3. Wastewater application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainage, irrigation canals, lakes and reservoirs.
4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber phone number 332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of discharges and must be informed how much wastewater will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
5. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed as it is applied.

PERMIT TO CONSTRUCT

PERMIT NO. 88-326
SEE SPECIAL CONDITION

X New
Renewal
Modified

OLD CHEYENNE

This permit hereby authorizes the applicant:

Bit-O-Wyoming, Inc.
Suite 20, 2020 Grand Avenue
Laramie, Wyoming 82070.

to construct, install or modify a commercial septic system (wastewater treatment & disposal) and Clivus Multrum Toilets according to the procedures and conditions of the application number 88-326. The facility is located in Section 36, T14N, R71W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

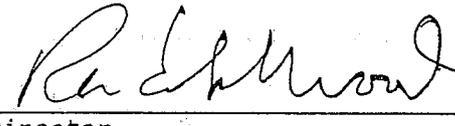
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division P.E. # 1479




Director
Department of Environmental Quality

8-9-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITION FOR PERMIT 88-326

1. The permittee shall notify the Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070, phone number (307) 721-5188, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. At least one working day (24 hours) notice is required prior to backfilling.
2. Each infiltrator drainfield line shall have a capped 4-inch inspection port into the plastic leaching chamber.

cc: Mike Casey, Albany County Planning Office

EW R7

PERMIT TO CONSTRUCT

PERMIT NO. 88-327
See Conditions

X New
Renewal
Modified

1209 South Third Street Texaco Property

This permit hereby authorizes the applicant:

Agent for Texaco Refining and Marketing, Inc.
Delta Environmental Consultants, Inc.
2637 Midpoint Drive, Suite F
Fort Collins, CO 80525

to construct, install or modify 4" PVC monitoring wells according to the procedures and conditions of the application number 88-327. The facility is located in S4, T15N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

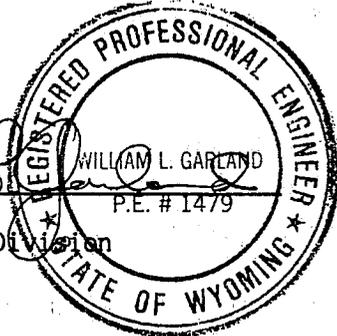
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division


Director
Department of Environmental Quality

8-23-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions to Permit to Construct 88-327

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-327. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be

addressed when the wells are installed:

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - h. A protective casing and locking cap is strongly recommended;
 - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;

Conditions to Permit 88-327 (Continued)

- f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

cc: Jake Strohman

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-328
See Conditions

- X New
- Renewal
- Modified

McFadden Camp Land Application

This permit hereby authorizes the applicant:

Marathon Oil Company
P O Box 2690
Cody, WY 82414

to construct, install or modify land application facility according to the procedures and conditions of the application number 88-328. The facility is located in S2, T16N, R78W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of 30 days (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

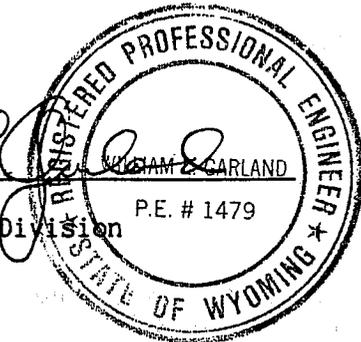
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



REGISTERED PROFESSIONAL ENGINEER
WILLIAM E. GARLAND
P.E. # 1479
STATE OF WYOMING


Director
Department of Environmental Quality

9-22-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions to Permit to Construct #88-328

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8 percent for vehicular application or 15 percent for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, 122 West 25th, Herschler Building, 4 West, Cheyenne, Wyoming 82002, phone number 777-7781, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of discharges and must be informed how much wastewater will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
5. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed as it is applied. Wastes will not be applied during the period from November 1 to April 30.

cc: E. J. Fanning

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-329
See Conditions

- X New
- Renewal
- Modified

Cheyenne Housing Authority Fuel Island

This permit hereby authorizes the applicant:

John Galeotos
3304 Sheridan Avenue
Cheyenne, WY 83001

to construct, install or modify vapor detection Well(s) according to the procedures and conditions of the application number 88-329. The facility is located in S21, SE $\frac{1}{4}$ T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

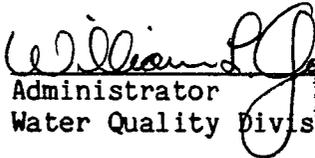
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

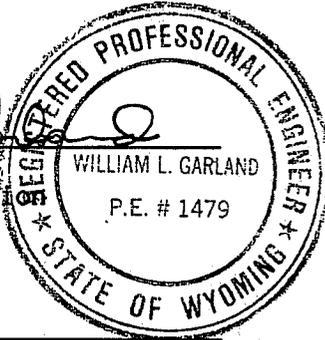
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

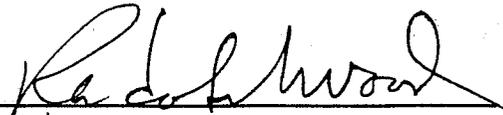
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

9-9-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions to Permit to Construct #88-329R

1. The vapor detection wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-329. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;

Conditions to Permit 88-329 (continued)

- c. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - d. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap.
6. Automatic vapor detection equipment specifications shall be provided to the department for review prior to installation.
 7. Keys for the locked vapor detection wells shall be kept on site at all times.
 8. Background vapor concentrations shall be monitored for a minimum of one week prior to introduction of fuel into the underground storage tanks. Background vapor concentrations shall be reported to the Department of Environmental Quality (DEQ) within 15 days of recording.
 9. If vapor concentrations are detected at any time, the DEQ/WQD shall be immediately notified at 777-7781 and documentation provided within 15 days.
 10. Perforations in the vapor wells located within the line trenches shall extend upward to the level of the lines.



THE STATE

OF WYOMING



Department of Environmental Quality

Air Quality Division
2161 Coffeen, Suite 501
Sheridan, Wyoming 82801
(307) 672-6457

Water Quality Division
2161 Coffeen, Annex
Sheridan, Wyoming 82801
(307) 672-6457

May 8, 1990

Gerald Faudel
Frontier Refining, Inc.
2700 East 5th Street
Cheyenne, WY 82003

RE: WQD Permits Nos. 85-308, 85-453, 87-100, and 88-33ORR;
Groundwater Assessment and Remediation Systems;
Cheyenne Frontier Refinery Facility;
Laramie County, Wyoming

Dear Mr. Faudel:

The DEQ/WQD has reviewed the existing permits involving groundwater remediation and/or monitoring activities at the facility referenced above. A copy of WQD Permit Nos. 85-308 and 85-453 have been enclosed for your reference. The monitoring conditions established in these permits have not been satisfied to date and may, in some cases, be invalid for satisfying the current environmental compliance requirements for this facility. DEQ personnel would be delighted to assist you in revising the monitoring activities at this facility.

According to DEQ records, Conditions #1 and 2 of WQD Permit No. 87-100 have not been satisfied. Please submit this information or detail otherwise. A copy of this permit has also been enclosed for your reference.

Enclosed is your original permit application for a groundwater restoration system (WQD Permit No. 88-33ORR) at Frontier Refinery. According to recent activities, this WQD permit is no longer necessary and the application has been withdrawn.

Your continued cooperation will be appreciated. If you have additional questions or comments, please do not hesitate to contact me at (307) 672-6457.

Sincerely,

Edith L. Johnson
Groundwater Engineering Evaluator
Water Quality Division

cc: Jake Strohman, DEQ Cheyenne
Steve Jones, AG Office
Patti Burns, IPS



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937Air Quality Division
(307) 777-7391Land Quality Division
(307) 777-7756Solid Waste Management Program
(307) 777-7752Water Quality Division
(307) 777-7781

August 22, 1988

Loren Pritzel
P O Box 1588
Cheyenne, WY 82003-1588

RE: Review comments on Frontier's proposed conceptual design

Dear Mr. Pritzel:

The Water Quality Division has reviewed and commented on the conceptual design summary for Frontier Oil and Refinery groundwater remediation plan. A main overall comment the division would like to point out is the location of the proposed recovery systems. All the systems are located within the refinery boundaries excluding the product recovery well located at GCI-108. The division would like to make it clear that free product and dissolved constituents need to be recovered. Therefore, some of the recovery system locations need to be installed offsite of the refinery in order to recover all contaminants. Specific locations of concern are addressed in the comment section of this letter.

Specific comments about the conceptual design are as follows:

1. A permit application must be submitted along with the final design in triplicate. Three copies of the permit are attached.
2. Looking at the radius of influence predictions for the recovery wells, it is the division's opinion that the 2 gpm will be adequate for all onsite wells. All offsite wells (only GCI-108 at this time) shall be pumped at the 5 gpm. This is needed because the exact extent of contamination is unknown.
3. Offsite dissolved constituent recovery. As discussed above, there are some offsite areas that need some type of recovery system installed. Two of the areas are near GCI-109 and the northeast section of the refinery. The area near GCI-109 is needed to recover dissolved constituents. Frontier has the option of moving the present trench location eastward to capture the entire eastern extent of contamination or utilize GCI-108 recovery well and install another recovery well(s) in and/or around GCI-109. The north eastern area may need recovery systems installed depending on what is determined from the newly installed

wells. If the gradient is what has been shown in the past, the area around GCI-107 may still need a recovery well. The contaminants in this area may not be recovered by any of the onsite recovery systems or by GCI-108.

4. Detail Calculations:

- (1) Radius of influence for each area of differing hydrogeologic properties for the recovery wells and trenches. (describe what methods were used in the submitted model).
- (2) Flow design calculations for all trenching systems. (i.e. At the given depth of the pipe, what estimated flow can be expected with the given length of trench?)

5. Explain in greater detail how all recovery systems will work. Also, the division requests that the product recovery wells contain a double pump system to ensure product flow is toward the well instead of being forced away due to water mounding.
6. Another problem with the conceptual design is that there isn't any collection/hydraulic control systems near the lower wastewater treatment ponds. These ponds are going to be taken out of service starting November 8, 1988. This will provide a pathway for the contaminants to migrate into the Crow Creek alluviums. Hence a recovery system will be needed in this area. EPA has stated that clean closure of these ponds will not be possible and therefore the recovery system will be needed to be installed downgradient of the ponds.
7. Another aspect of this design that must be submitted is a operation and maintenance plan and monitoring plan.

I. Operation and Maintenance plan shall include the following.

- A. Description, operation and control of the system.
- B. Personnel
 1. Requirements to maintain
 2. Qualifications
 3. Inspection intervals
- C. Laboratory Testing
 1. Sampling program of actual system effluent
- D. Records
 1. Daily, weekly monthly records of how the system is operating
 2. SWL, sampling etc.
 3. Annual report
- E. Maintenance
- F. Emergency operating and response program. What will be done if systems malfunction to prevent contaminants from by passing the system.

G. ETC.

II. Monitoring Plan

- A. Selected bunch of monitor wells shall be chosen to monitor the effectiveness of the recovery systems. These wells shall be sampled for quality, free hydrocarbons, and SWL. This shall be incorporated into the records section of the O&M plan.

The final plans shall begin to be drawn up as soon as Frontier receives this letter. The outstanding north eastern extent of contamination issue should not interfere with the majority of the conceptual design. Hence, Frontier has 60 days after receipt of this letter to submit the final drawings.

If you have questions contact the division at 777-7781.

Sincerely,



Thomas Pilch
Groundwater Engineering Associate
Water Quality Division

TP/jt

cc: Mohsen Mehran
18218 McDermott East
Suite G
Irvine, CA 92714

PERMIT TO CONSTRUCT

- [X] New Permit No. 88-331R
* Conditions on Permit
[] Renewal
[] Modified

Gros Ventre River Ranch Lodge

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Gros Ventre River Ranch

P.O. Box 151

Moose, WY 83012

to construct, install, or modify a septic tank/disposal field system facility according to the procedures and conditions of the application No. 88-331R. The facility is located in NW 1/4 Sec. 6, T42N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

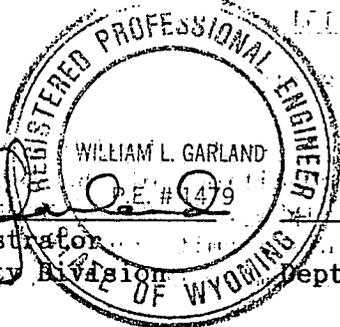
PERMIT TO CONSTRUCT

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



William L. Garland
Administrator
Water Quality Division
OF WYOMING

R. John Wood
Director
Dept. of Environmental Quality

10-13-88

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Conditions on Permit

This permit is authorized with the requirement that the following conditions are fulfilled:

1. A groundwater monitor well must be installed between the leach field and the Gros Ventre River. The well must meet the Water Quality Division construction standards and be permitted by the WQD groundwater section and the Wyoming State Engineers Office. Construction of the well must be completed within 30 days of completion of the leach field. A monitoring schedule will be determined upon permitting.
2. A 4 inch diameter standpipe must be installed in the building floor drain gravel drain. The pipe must be slotted in the area of the gravel and capped at the surface with a threaded fitting.
3. A sign must be installed near the floor drain. The sign must prohibit the disposal of any oils or solvents into the drain.

The purpose of this permit is to ensure that the construction of this permit complies with the requirements of the Wyoming State Engineers Office.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 88-332R

Antelope Butte Wastewater Disposal System
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Antelope Butte Ski Area

1 East Alger

Sheridan, WY 82801

to construct, install, or modify a outfall line from existing septic tank to new leach field and new leach field facility according to the procedures and conditions of the application No. 88-332R. The facility is located in NW 1/4 Sec. 31 T54N, R88W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met.

The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

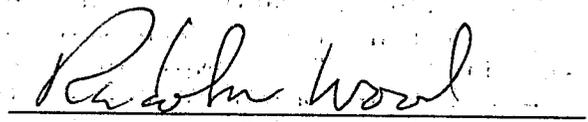
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

10-20-88
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

✓
cc R7

PERMIT TO CONSTRUCT

PERMIT NO. 88-333
See Conditions

X New
Renewal
Modified

Shoshone Municipal Water Supply

This permit hereby authorizes the applicant:

Lyle McClellan
Barcon Inc.
Box 686
Sheridan, WY 82801

to construct, install or modify deep anode ground bed according to the procedures and conditions of the application number 88-333. The facility is located in S32, T53N, R101W in the county of Park and Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

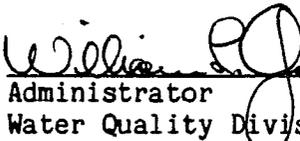
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

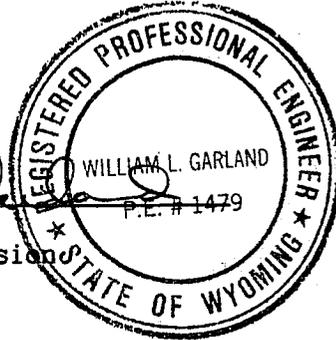
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

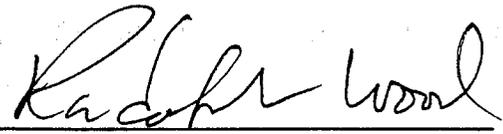
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

8-23-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions to Permit to Construct #88-333

1. The cathodic protection deep anode ground bed well shall be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 88-333.
2. After the deep anode ground bed well has fulfilled its useful purpose, it shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. Within 15 days after the well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
3. In addition to the anode bed construction information submitted with the permit application, the following items relating to well construction must be addressed when the well is installed:
 - a. Bentonite grout seal installed to depth just above the coke breeze.
 - b. The coke breeze backfill has a total organic content no greater than 0.2 percent.
 - c. All aquifers encountered while drilling shall be isolated with polymer mud to prevent co-mingling of different aquifers or each aquifer shall be isolated, sampled and analyzed for all parameters contained in Table I of Chapter VIII of the Wyoming Water Quality Rules and Regulations. If aquifers are of the same class of use as determined by the Department of Environmental Quality, intermingling may be allowed.
4. Within 45 days after the well has been installed, borehole logs and as-built construction plans shall be submitted to the Wyoming Department of Environmental Quality, Water Quality Division, detailing that the groundwater was protected during construction.

THE STATE



OF WYOMING

JIM GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

February 14, 1995

Snyder Oil Co.
P.O. Box 129
Baggs, WY 82321

RE: APPLICATION WITHDRAWN:
Barrel Springs Fed. 20-1-16-93 (sewage holding tanks)
Application 88-334

Dear Snyder Oil Co.:

Your response to our project status request letter for the above referenced "permit to construct application" indicates the project is no longer planned for construction. The application is considered inactive and is being returned.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and is punishable with fines. If you wish to reconsider construction of this facility, then it will be necessary to reapply.

Thank you for your response to clear up this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Randall Taylor".

Randall Taylor
Water Quality Division
S.W. Dist. Engr. Supervisor

Enclosure

xc: IPS

ARCHIVES

RF ✓

PERMIT TO CONSTRUCT

PERMIT NO. 88-335

X New
Renewal
Modified

Kortes School Small Wastewater System

This permit hereby authorizes the applicant:

Carbon County School District No. 2
P O Box 1530
Saratoga, WY 82331

to construct, install or modify small wastewater system according to the procedures and conditions of the application number 88-335. The facility is located in S26, T26N, R84W, NW¼ in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

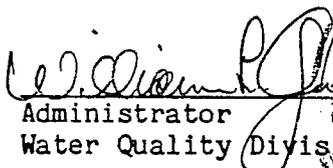
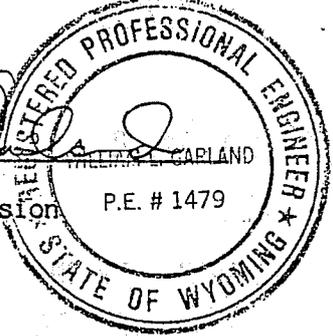
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

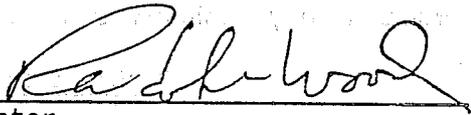
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



Director
Department of Environmental Quality

9-7-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Paul McCarthy, PMPC, Box 370, Saratoga, WY 82331

LAND APPLICATION PERMIT

Permit No. 88-336
SEE SPECIAL CONDITIONS

WIND CREEK UNIT - ROAD APPLICATION
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Diamond "B" Industries, Inc.

P. O. Box 608

Newcastle, Wyoming 82701

To land apply oil contaminated soil to lease roads. The application site is located in Section 23, T.49N., R.66W., in the County of Crook, in the State of Wyoming. This permit shall be effective for a period of six (6) months from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable State requirements.

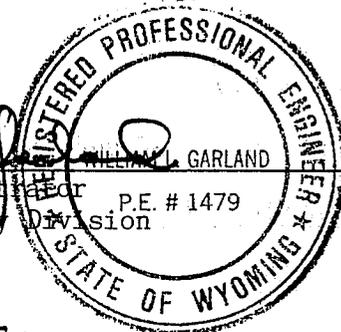
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with provisions of this permit.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulations.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
P.E. # 1479


Director
Dept. of Environmental Quality

8-15-88

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

LAND APPLICATION SPECIAL CONDITIONS

1. Contaminated soil shall be applied at a rate which will not produce runoff or ponding of oil.
2. Application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. Contaminated soils shall be mechanically incorporated into the road bed as it is applied. Any evidence of free oil following application shall result in reincorporation of the material into the road surface.
4. This permit is for a one time application of soils associated with site reclamation at referenced facility. Any additional application of wastes shall be repermited.

xc: High Plains of Wyoming
P. O. Box 727
Newcastle, Wyoming 82701

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-337

X New
Renewal
Modified

Vehicle Corrosion Control Facility

This permit hereby authorizes the applicant:

U.S. Department of Defense
CSG/CC Gilmore M. Dahl, Colonel, USAF
F.E. Warren AFB, Wyoming 82005-5000

to construct, install or modify sanitary sewer extension and water service connection according to the procedures and conditions of the application number 88-337. The facility is located in NE $\frac{1}{4}$, S34, T14N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William L. Jales
Administrator
Water Quality Division

S. Alan Edwards
Director
Department of Environmental Quality

February 27, 1989
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.



THE STATE

OF WYOMING

Patti Burns ✓



Department of Environmental Quality

Air Quality Division
(307) 332-3144

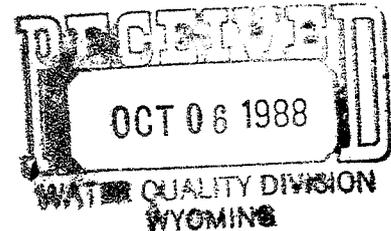
Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-3144

Water Quality Division
(307) 332-3144

September 8, 1988

Mr. Avelino Gutierrez
226 Dickson
Rock Springs, WY 82901



RE: Permit to Construct No. 88-338R

Dear Mr. Gutierrez:

The DEQ/Water Quality Division has reviewed the above referenced application for permit to construct water and wastewater systems for the A-K Trailer Court in Sweetwater County.

The Water Quality Division has determined that the systems meet the minimum design standards for the State of Wyoming, except for one section of curved sewer line and one section of sewer line in excess of 400 feet. Water Quality Rules and Regulations, Chapter XI, Part B, Section 9, requires that all sewers be aligned straight with manholes located at a maximum spacing of 400 feet.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter indicates only that standards of design and construction required by the Environmental Quality Act have been met except as noted. The state assumes no liability for and does not in any way guarantee the performance of the activities allowed under this letter. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this letter, the State does not in any way waive its sovereign immunity.

Since your systems have already been constructed, a permit to construct cannot be issued. This letter is your record that the water and sewer facilities, as installed, meet minimum state specifications, except as noted, and have been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

Mr. Avelino Gutierrez
September 8, 1988

In the future, if you are to build or modify a water or wastewater system, you must apply for a permit to construct from this office prior to construction to avoid enforcement

Sincerely,



Bill Locke, P.E.
Southwest District Supervisor

BL/anc

cc: Larry Robinson, DEQ/WQD, Cheyenne
Leon Kjellgren, JFC, Rock Springs

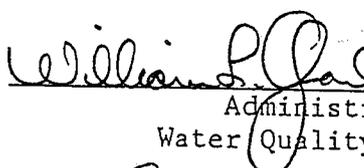
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

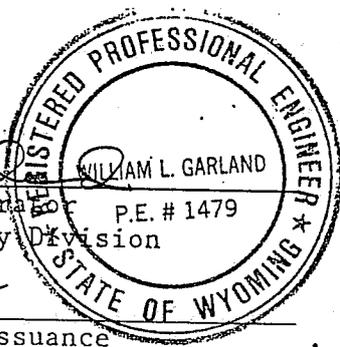
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone, 332-3144.

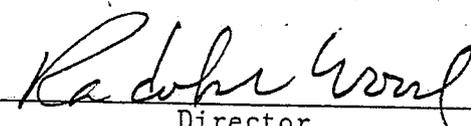
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrative
Water Quality Division
8-25-88
Date of Issuance




Director
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Delegated counties for small wastewater permits

STANDARD STATEWIDE CONDITION

1. The permittee shall notify both the appropriate county and state agency prior to the installation, removal or abandonment of any facility authorized by this permit. The appropriate agency for each county is indicated in the attached list. Notification shall be by phone with a follow-up written notice. Upon abandoning the site, the facility will be removed, disposed of, or left in place in a condition rendering the site safe for the public. Any waste from the facility shall be disposed of only in areas and in a manner approved by the appropriate agency. Upon request, the permittee shall allow authorized representatives of the local agency or the State to have access to the authorized facility for the purpose of conducting an inspection to determine compliance with the provisions of this permit.

Permit to Construct
Chevron USA - Statewide
Standard Conditions cont.

2. This permit is valid for temporary sanitary wastewater facilities only. Temporary being defined as one year or less. If the proposed facility is to be operated for more than one year, the permittee must obtain written authorization from this department.



Department of Environmental Quality

Air Quality Division
(307) 332-3144

Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-3144

Water Quality Division
(307) 332-3144

August 19, 1988

Mr. Mike Quick
Marathon Oil Co.
P.O. Box 2690
Cody, WY 82414

ARCHIVES

RE: Marathon LUST - Grass Creek Oilfield
Hot Springs Co.
Monitor well As-Build authorization
WQD Ref. No. 88-340

Dear Mike:

I have reviewed the application for a "Permit to Construct" the monitor wells at the above referenced site. The well construction appears to meet the minimum design standards for the State of Wyoming. A "permit to construct" cannot be issued since the wells have already been installed. Please retain this letter as verification that the facility has been accepted by the Wyoming Department of Environmental Quality with the following conditions:

- I. Additional wells meeting the requirements of the application and this letter may be installed if prior approval is received from the Water Quality Division (WQD).
- II. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
- III. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
- IV. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions

Arathon Oil Co.
As-Built Authorization

which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.

- V. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
- VI. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- A. A chronology of events leading up to the investigation;
 - B. A site map showing physical features, well locations and elevations;
 - C. Final location, construction details and logs of all monitoring wells;
 - D. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - E. Water level and product thickness measurements;
 - F. Sample collection procedures;
 - G. Sampling analytical results;
 - H. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - I. A potentiometric surface map showing the direction of groundwater movements; and

Marathon Oil Co.
As-Built Authorization

- J. Interpretation of data and conclusions including recommended remedial measures.
- VII. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
- VIII. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for benzene, ethylbenzene, toluene, and xylene in accordance with EPA method 601/602 and total petroleum Hydrocarbons in accordance with method 418.1. Sampling shall continue until other monitoring operations are allowed by the WQD. When product layers exist, they are to be measured and the above parameters need not be sampled for.

The results of these analyses shall be submitted to the Lander office by the last day of the month following the end of each quarter. The first set of quarterly sampling results are due by the last day of January.

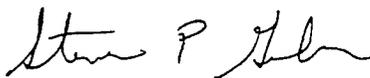
- IX. The following information must be provided with each quarterly report:
- A. Water level and product thickness measurements;
 - B. Sampling analytical results;
 - C. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - D. A potentiometric surface map showing the direction of groundwater movement; and

Marathon Oil Co.
As-Built Authorization

- E. Interpretation of data and conclusions,
including recommended actions to be taken based
on the new data.

If you have any questions do not hesitate to contact me.

Sincerely,



Steven P. Gerber, P.E.

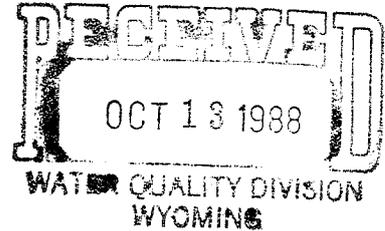
SPG/anc

cc: Jake Strohman

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE : (307)332-3144



PROJECT: Farson Public Water Supply

ENGINEER: Harry J. Kessner, P.E./L.S.
Bennett-Carder & Associates, Inc.
P.O. Box 1324
Rock Springs, WY 82901

OWNER: Sandy Crossing Ent. Inc.
Box 193
Farson, WY 82932

WATER QUALITY DIVISION REFERENCE NUMBER: 88-341

REVIEWING ENGINEER: Sterling Roberts *STR*

DATE OF REVIEW: October 4, 1988

ACTION: Not authorized

COMMENTS:

An initial review of your plans and specifications, submitted on July 29, 1988, has been completed. The following items need to be addressed and/or resolved.

1. An engineering and design report needs to be submitted.
2. The current and projected system water demand for the average day, maximum day, maximum hour, any needed fire flows and per capita maximum daily flows will need to be provided.
3. The geology of the aquifer and the overlying strata are required.
4. Water Quality data including biological, radiological and chemical quality sufficient to determine treatment processes and compliance with all drinking water standards is required. A water quality report documenting the concentrations of the constituents listed in Chapter VIII page 9, (with the exception of radio nuclides) for all sources is required.
5. Sources of possible contamination around the well or in any known recharge areas, including the location of any waste sites, industrial facilities and wastewater disposal areas should be noted.

Review of Plans & Specs.
Farson Public Water Supply
October 4, 1988

6. The plans for the water distribution system will require the name, Wyoming registration number, and seal or signature of the engineer.
7. The plan view should show the existing locations of all utilities and the location and size of all water lines, valves, access manholes, and other appurtenances. Pertinent elevations shall be indicated on all appurtenances. Information on sanitary and storm sewers will be provided which provide assurance of horizontal and vertical separation from the watermains.
8. Detail drawings shall be provided that show 1) A cross-section drawing of the pipe bedding 2) Any additional features not otherwise covered by the specifications.
9. Location of any sewer lines within 30 feet (horizontally of waterlines) will be shown.
10. Plan and profile drawings of well construction shall be submitted showing diameter and depth of drill holes, casing and liner diameters and depths, grouting depths, elevation and designation of geological formations, water levels, and other details to describe the well completely.
11. Technical specifications shall accompany the plans for new water lines, treatment facilities and wells. The specifications accompanying the drawings shall include:
 - a. Identification of construction materials
 - b. The type, size, strength, operating characteristics, rating or requirements for all mechanical and electrical equipment, including machinery, valves, piping, electrical apparatus, wiring and meters, special appurtenances, and chemicals where applicable.
 - c. Requirements and test of materials and equipment to meet design standards.
 - d. Performance tests for operation of completed works and component units.
12. Groundwater supply facilities shall provide disinfection equipment and connections, as a minimum.
13. When the finished water storage volume for the system is not capable of supplying the maximum daily demand, an alternative power source shall be provided for the finished water pumps.

Review of Plans & Specs.
Farson Public Water Supply
October 4, 1988

14. The total developed groundwater sources, along with other water sources, shall provide a combined capacity that shall equal or exceed the design maximum daily demand. Where 2 or more wells are provided, the sources shall be capable of equaling or exceeding the design average daily demand with the largest producing well out of service.
15. Every well shall be tested for plumbness and alignment in accordance with AWWA A-100.
16. The well construction materials must be shown to comply with DEQ Chapter XII, Section 9b.
17. It is recommended that flow meters be installed on all wells.
18. The distribution system materials must be shown to comply with DEQ specifications.
19. The system shall be shown to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow. The normal working pressure in the distribution system shall be shown to be not less than 35 psi.
20. Since the main is smaller than 6 inches, the system must be justified by hydraulic analysis and future water use.
21. Assurance that the system has sufficient cover to prevent damage from freezing and frost heave will be provided.
22. Document any pressure or leakage tests that were performed.
23. Assurance that all residential connections are provided with specified backflow prevention devices will be required.

R.F. *gmt*

PERMIT TO CONSTRUCT

PERMIT NO. 88-342
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

STEEL SERVICE FACILITY

This permit hereby authorizes the applicant:

Pitt-Des Moines, Inc.
3400 Grand Avenue
Neville Island
Pittsburgh, PA 15225

to construct, install or modify monitoring wells and boreholes according to the procedures and conditions of the application number 88-342. The facility is located in Section 1, SE $\frac{1}{4}$ NW $\frac{1}{4}$ T33N, R97W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

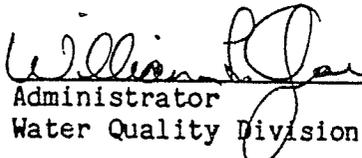
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

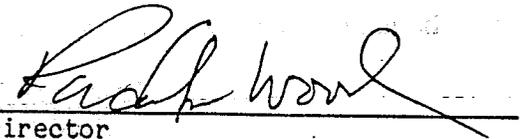
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

9-14-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 88-342

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-342. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
3. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
4. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD.
5. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
6. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:

Conditions to Permit 88-342 (continued)

- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A potentiometric surface map showing the direction of groundwater movement; and
 - i. Interpretation of data and conclusions including recommended remedial measures.
7. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
8. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below or until the division specifies differently.

BETX (EPA 602) TPH (EPA 418.5)

The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of each quarter. The first set of results are due by the last day of October.

-
9. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
 10. To determine the subsurface conditions three monitor wells need to be installed. The location of these wells are shown on the attached map. Depending on the results from these wells, additional sampling or monitor well installation may be required.

cc: Jake Strohmman, DEQ/WQD
West Hazmat Corp.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Steel Service Facility

ARCHITECT OR ENGINEER: West Hazmat Corp
Attn: William P. McKinnell III
P O Box 505
Casper, WY 82602

APPLICANT: Pitt-Des Moines Inc.
Attn: Ms. Nancy Palmer
3400 Grand Avenue, Neville Island
Pittsburgh, PA 15225

WATER QUALITY DIVISION REFERENCE NUMBER: 88-342

REVIEWING ENGINEER: Tom Pilch 

DATE OF REVIEW: August 11, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

The Water Quality Division has formulated an outline of data needed to be preformed when conducting an environmental assessment on a given property. This outline is attached. The outline must be followed as completely as possible and all the data shall be submitted with the Chapter III permit applicants. In addition, the Chapter III permit applications submitted needs the following changes:

1. Monitor wells are required and therefore must be checked off on the permit. With this, State Engineer permits must be obtained.
2. The application must be signed by the applicant.

The original permit application and three blank permit applications are attached for your use.

/mad



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781
FAX (307) 777-5973

February 8, 1991

Mike Jennings
Natrona County Health Department
1200 East Third Street
Casper, WY 82601-2990

RE: Permit Application #88-343 for Robert J. Hand Septic Tank and
Leachfield, Lot 4 Red Creek Meadows Tract 32, S18, T32N, R79W, Natrona
County

Dear Mike:

The attached application for a septic tank was submitted to DEQ/WQD back in 1988. We found problems with the proposed design spelled out in the attached review.

Our normal procedure is to return permit applications that die on the shelf to the applicant with a letter that says "Start over if you want to build something." However on the chance that the party may have went ahead without authorization, I am sending this to you for your information. When you are done with it, file or pitch. We will maintain no record.

Sincerely,

Louis B. Harmon, P.E.
Southeast District Supervisor
Water Quality Division

LBH/nc

Enclosure

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Hand Septic System

ENGINEER:

APPLICANT: A. J. Vollmar, 990 E. Magnolia, Casper, WY 82604

WATER QUALITY DIVISION REFERENCE NUMBER: 88-343

REVIEWING ENGINEER: Thomas S. Norman TSN

DATE OF REVIEW: August 16, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The application must be signed by the owner.
2. The regulations require a four foot separation from the bottom of the drain-field to the seasonally high groundwater level. The data obtained on August 5, 1988 does not represent the seasonal high groundwater level. Even in August, the system is marginal. Your geologist may be able to determine where mottling of the soil occurs which represents the seasonal level. Otherwise the groundwater will have to be monitored through next spring and early summer. A perforated pipe can be used for monitoring the shallow groundwater.

/nc

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R7

PERMIT TO CONSTRUCT

PERMIT NO. 88-344

X New
Renewal
Modified

CASPER STREET WATER LINE EXTENSION

This permit hereby authorizes the applicant:

Casper Board of Public Utilities
200 North David Street
Casper, WY 82601

to construct, install or modify municipal water distribution line according to the procedures and conditions of the application number 88-344. The facility is located in S18, T33N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

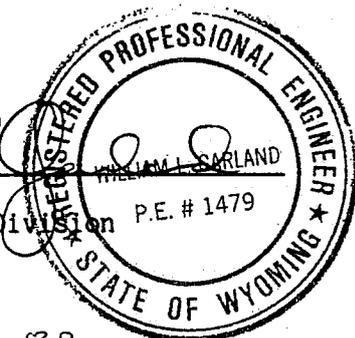
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

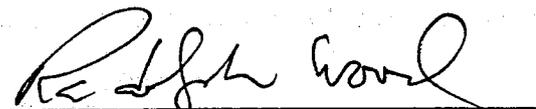
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


William L. Sarland
Administrator
Water Quality Division


Director
Department of Environmental Quality

8-23-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

✓
ell

LAND APPLICATION PERMIT

Permit No. 88-345
SEE SPECIAL CONDITIONS

FOUR HORSE OIL FIELD - DUST CONTROL
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Stewart Petroleum Corporation

5040 S. Albion Way

Littleton, Colorado 80121

To land apply produced water to lease roads for dust control. The application site is located in Sections 3, 5, 9, 10, T.47N., R.68W., in the County of Weston, in the State of Wyoming. This permit shall be effective until November 15, 1988.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable State requirements.

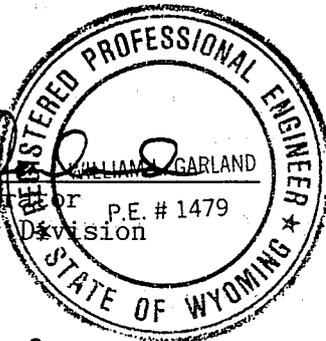
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with provisions of this permit.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulations.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

A circular professional engineer seal for William Garland, State of Wyoming, P.E. # 1479. The seal is stamped over the signature of William Garland.

William Garland
Administrator
Water Quality Division
P.E. # 1479

Rod Randell

Director
Dept. of Environmental Quality

8-23-88

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

ROAD APPLICATION SPECIAL CONDITIONS

1. Produced water shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated when saturated soil conditions exist.
2. Produced water application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. This permit shall be in effect until November 15, 1988. Any produced water application after that date must be reauthorized by the Water Quality Office.
4. The source of water for this permit is a Federal lease. The applicant shall comply with any provisions required by the Bureau of Land Management for use of this water for dust control.

xc: Rod Randell
BLM
1501 Highway 16 Bypass
Newcastle, Wyoming 82701

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-346 (Ref. 87-367)
SEE SPECIAL CONDITIONS

New
Renewal
X Modified

FORT LARAMIE WASTEWATER TREATMENT FACILITY

This permit hereby authorizes the applicant:

Town of Fort Laramie
P O Box 177
Fort Laramie, Wyoming 82212

to construct, install or modify a modification of existing lagoon and addition of an infiltration lagoon according to the procedures and conditions of the application number 88-346 (Ref. 87-367). The facility is located in Section 26, T26N, R64W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

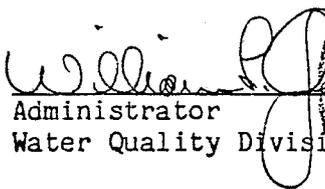
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

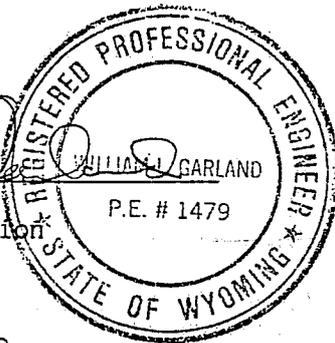
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

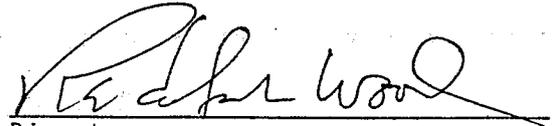
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

9-28-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct #88-346

1. Monitoring wells shall be installed in accordance with application and permit conditions #87-429 prior to the construction of the wastewater facilities. Groundwater surface elevations and water quality sample, results, required by 87-429 will be submitted to the Department of Environmental Quality, Water Quality Division (DEQ/WQD).
2. Screens will be provided on both interconnection pipe lines from the existing cell to the infiltration cell. The screens shall have 0.6 inch or smaller openings.
3. Dikes and embankments shall be compacted to at least 95 percent of maximum density (ASTM D698-78).
4. An operation and maintenance manual shall be provided to DEQ/WQD in draft form at 50 percent completion of construction and a final manual prior to start up. The manual will specifically address the proposed annual drawdown to occur in October and the maintenance of the infiltration cell.

cc: Stephen O. Sandvik, Wells Engineers, Inc.
570 W. 44th Ave., Suite 100
Denver, Colorado 80216

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-347

X New
Renewal
Modified

Casey Sewer Line

This permit hereby authorizes the applicant:

Board of Public Utilities
2100 Pioneer Avenue
Cheyenne, WY 82001

to construct, install or modify municipal wastewater collection line according to the procedures and conditions of the application number 88-347. The facility is located in S19, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
P.E. # 1479
STATE OF WYOMING

R. L. DeWool
Director
Department of Environmental Quality

8-23-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

12

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 88-348

LATIMER SMALL WASTEWATER FACILITY
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Jack R. Latimer

Rt. 2

Sundance, Wyoming 82729

to construct, install or modify a small wastewater treatment facility according to the procedures and conditions of the application No. 88-348. The facility is located in Section 22, T.52N., R.65W., in the County of Crook, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
P.E. # 1479
STATE OF WYOMING

Robert Wood
Director
Dept. of Environmental Quality

8-23-88

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-349

X New
Renewal
Modified

Ronald Burns

This permit hereby authorizes the applicant:

Ronald Burns
Box 224
Wheatland, WY 82201

to construct, install or modify small wastewater treatment and disposal system (septic) according to the procedures and conditions of the application number 88-349. The facility is located in S26, T24N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction ~~required by the Environmental Quality Act~~ have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

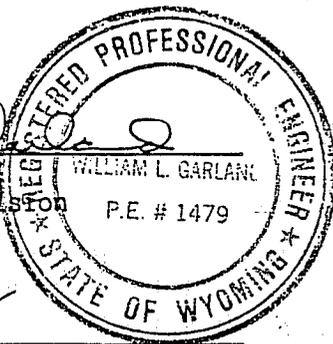
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

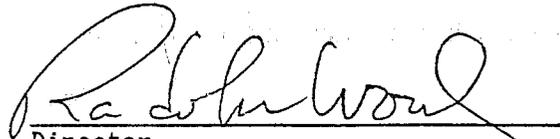
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
P.E. # 1479
STATE OF WYOMING


Director
Department of Environmental Quality

9-7-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-350
See Conditions

- X New
- Renewal
- Modified

Meridan Rest Area Plumbing Modifications

This permit hereby authorizes the applicant:

Wyoming Highway Department
P O Box 1708
Cheyenne, WY 82002-9019

to construct, install or modify commerical septic system according to the procedures and conditions of the application number 88-350. The facility is located in S9, T18N, R62W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

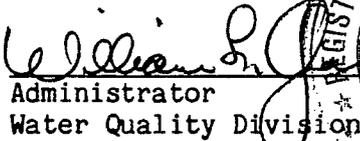
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

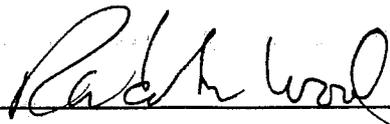
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

9-22-88
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions to Permit to Construct #88-350

The permittee shall notify Don Pack, Cheyenne Laramie County Health Department, Division of Environmental Health, 1710 Snyder Avenue, Cheyenne, WY 82001, phone number (307) 638-8545 of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: Don Pack, Laramie County Environmental Health